



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Nucor Building Systems
200 Whetstone Road
Swansea, SC 29160

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.030" (min.) Structural VR16-II "VICE LOCK 360" Galvalume Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. MD-VR16II, titled VR16-II "VISE LOCK 360" sheets 1 through 9 of 9, prepared by Jeffrey C. Walsh, P.E., last revision #1 dated November 14, 2012, signed and sealed by Jeffrey C. Walsh, P.E. on November 15, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 09-0723.08 and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
12/06/2012

NOA No. 12-0814.10
Expiration Date: 10/17/2017
Approval Date: 12/06/2012
Page 1

Nucor Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0723.08

A. DRAWINGS

1. *Drawing No. LS36022, titled VR16-II "VICE LOCK 360", sheets 1 through 6 of 6, prepared by Jeffrey C. Walsh, P.E., dated November 25, 2009, signed and sealed by Jeffrey C. Walsh, P.E. on December 03, 2009.*

B. TESTS

1. *See NOA # 07-1025.03 per Private Labeling Agreement.*

C. CALCULATIONS

1. *See NOA # 07-1025.03 per Private Labeling Agreement.*

D. QUALITY ASSURANCE

1. *By Miami Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *See NOA # 07-1025.03 per Private Labeling Agreement.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. MD-VR16II, titled VR16-II "VISE LOCK 360" sheets 1 through 9 of 9, prepared by Jeffrey C. Walsh, P.E., last revision #1 dated November 14, 2012, signed and sealed by Jeffrey C. Walsh, P.E. on November 15, 2012.*

B. TESTS

1. *See NOA # 12-0703.10 per Private Labeling Agreement.*

C. CALCULATIONS

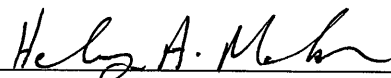
1. *See NOA # 12-0703.10 per Private Labeling Agreement.*

D. QUALITY ASSURANCE

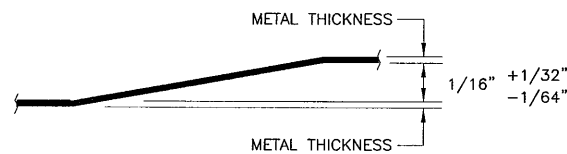
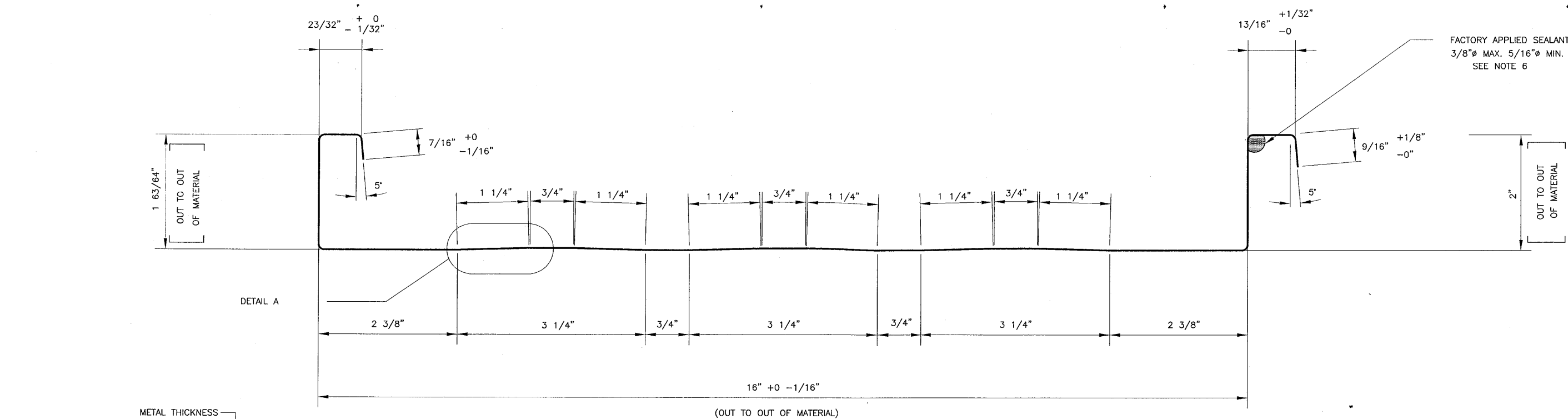
1. *By Miami Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *See NOA # 12-0703.10 per Private Labeling Agreement.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0814.10
Expiration Date: 10/17/2017
Approval Date: 12/06/2012



DETAIL A
(TYPICAL)

STANDARD 16" PANEL

DESIGN NOTES:

1. THIS ROOF PANEL IS APPROVED FOR SPANS UP TO 5'-0" MAXIMUM.
2. DEFLECTION SHALL BE LIMITED TO L/240.
3. THIS ROOF PANEL IS APPROVED FOR GRAVITY (POSITIVE) PRESSURE OF 92.4 PSF.
4. THIS ROOF PANEL IS APPROVED FOR UPLIFT (NEGATIVE) PRESSURES AS SHOWN IN THE TABLE BELOW. FOR PANEL SPANS BETWEEN 1'-0" AND 5'-0" THE MAXIMUM UPLIFT PRESSURE CAN BE DETERMINED BY INTERPOLATION.

MAXIMUM PANEL SPAN	MAXIMUM UPLIFT PRESSURE (PSF)
5'-0"	65.3
4'-0"	83.9
3'-0"	108.1
2'-0"	128.5
1'-0"	149.0

GENERAL NOTES

1. ALL DIMENSIONS ARE $\pm 1/16"$ (U.N.) EXCEPT TOLERANCE DIMENSIONS.
2. ALL RADII = $3/32"$ ($+1/32"$, $-0"$)
3. COIL WIDTH = 22" FOR 16" PANEL
TOLERANCE = $+1/8"$, $-0"$
4. PANEL LENGTHS = SEE MFG. SECTION OF MASTER PARTS LISTING.
5. MATERIAL = MINIMUM YIELD 50 KSI WITH A MINIMUM 0.030" THICKNESS
6. MASTIC SHALL BEGIN AND END A MAXIMUM DISTANCE OF 2" FROM BOTH PANEL ENDS, EXCEPT ON SWAGED PANEL END WHICH WILL BEGIN 2" MAXIMUM FROM THE SWAGE.
7. MINIMUM ALLOWABLE ROOF SLOPE = 1/4" ON 12

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0814.10
Expiration Date 10/17/2017
By *[Signature]*
Miami Dade Product Control

1	REVISED FOR FINAL SUBMITTAL	THG	JCW	11-14-12
NO.	REVISION	MADE	CR'D.	DATE

ENGINEER'S NAME:
JEFFREY C. WALSH
ENGINEER'S STATE REGISTRATION NUMBER:
41467

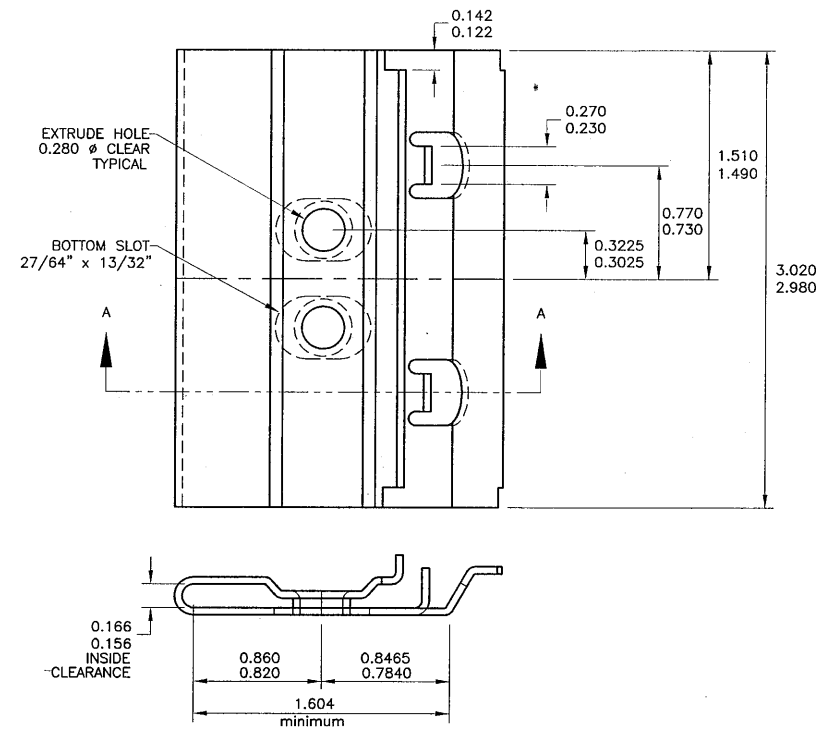
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DRAWN BY: RLV 6-28-12
CHECKED BY: BRW 6-28-12
DESIGN APP'D. BY:
ISSUED DATE:

VR16-II "WISE LOCK 360"
ROOF PANEL
CROSS SECTION

NUCOR
BUILDING SYSTEMS

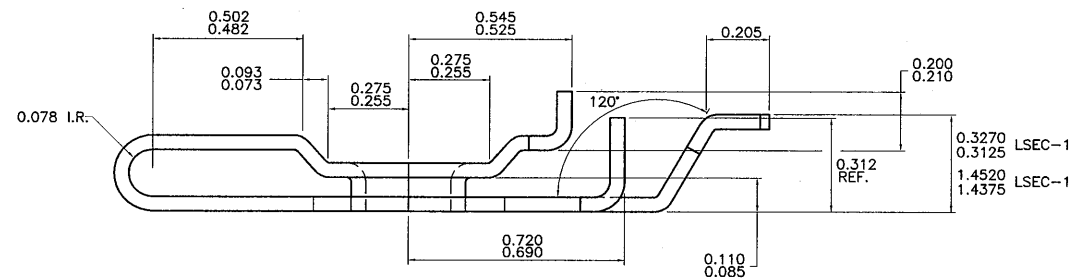
PO BOX 1006, 200 WHETSTONE RD.
SWANSEA, SC 29160 PHONE: (803)
568-2100 FAX: (803) 568-2121

DRAWING NUMBER: MD-VR16II
PAGE 1 of 9



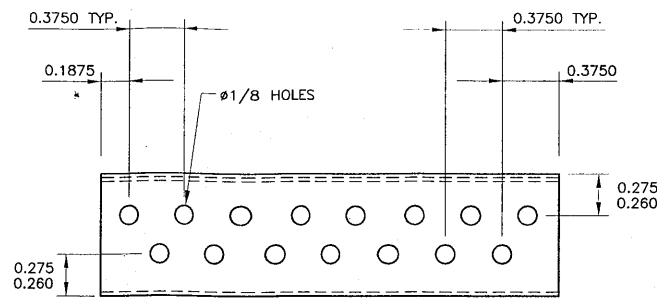
PART "A"

PART A MATERIAL = G90 GALVANIZED, GRADE 50
50,000 PSI ASTM A653
THICKNESS = 0.048" ± 0.002"

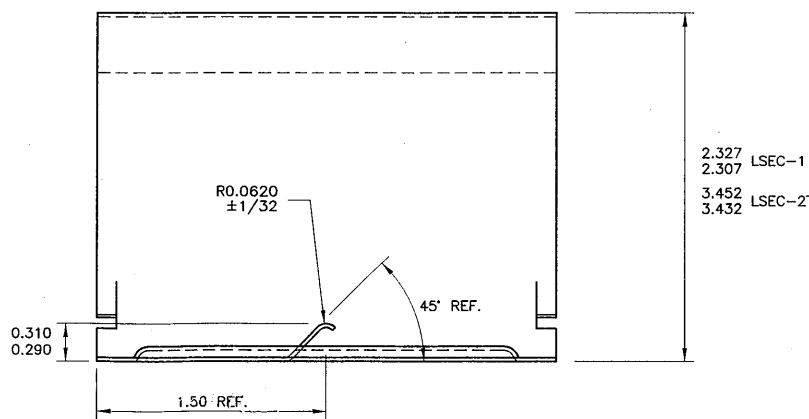
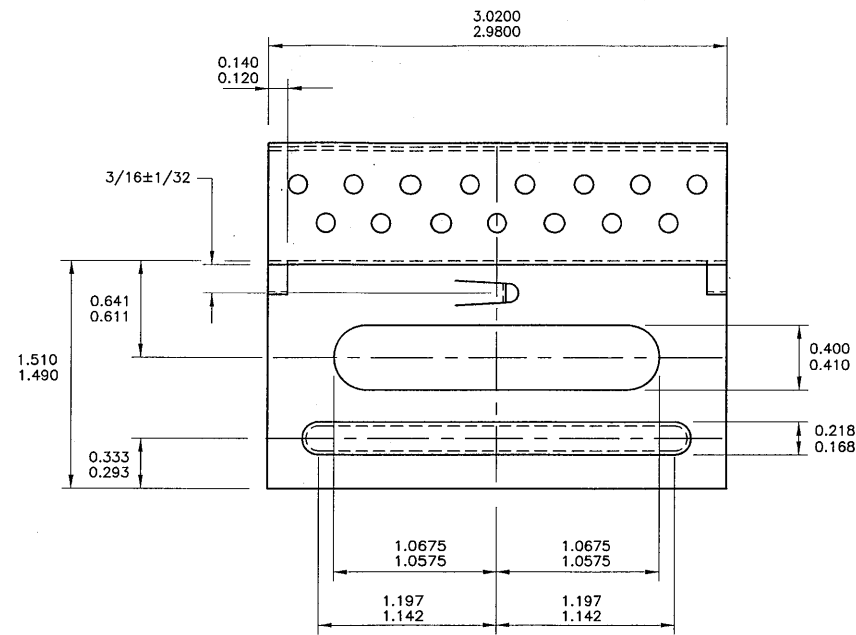


EXTRUDED HOLE TO REST ON PURLIN WHEN INSTALLED. EXTRUSION WILL BE SUFFICIENT TO HOLD MATERIAL APART TO AVOID BINDING WHEN CLIPS ARE SCREWED DOWN.

SECTION "A-A"

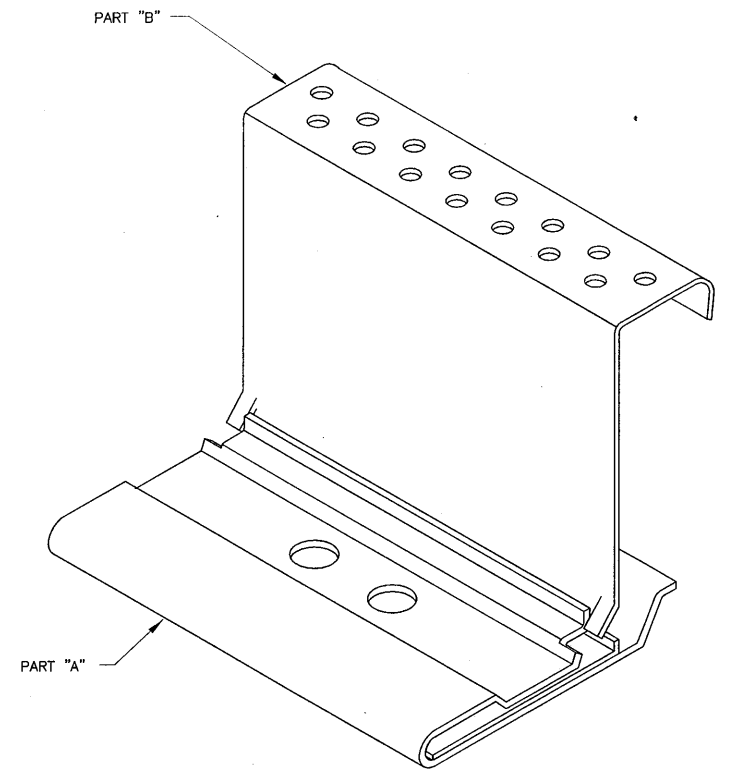


PART "B" PERFORATIONS

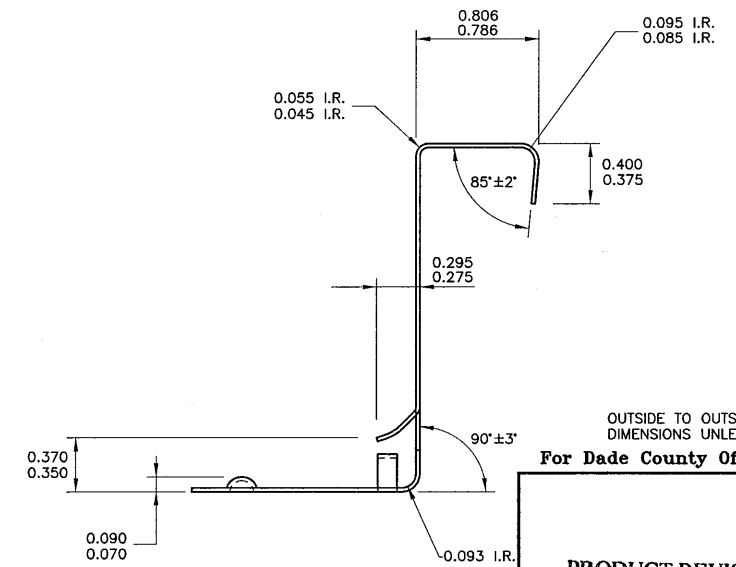


PART "B"

PART B MATERIAL = G90 GALVANIZED, GRADE 50
50,000 PSI ASTM A653
THICKNESS = 0.026" ± 0.002"



CLIP ASSEMBLY



OUTSIDE TO OUTSIDE DIMENSIONS UNLESS NOTED
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Expiration Date 10/17/2017
By *Heidi A. Walsh*
Miami Dade Product Control

NOTES:
ALL DIMENSIONS ± .020 UNLESS NOTED
NOT TO SCALE

1	REVISED FOR FINAL SUBMITTAL	THG	JCW	11-14-12
NO.	REVISION	MADE	CK'D.	DATE

ENGINEER'S NAME:	JEFFREY C. WALSH
ENGINEER'S STATE REGISTRATION NUMBER:	41467

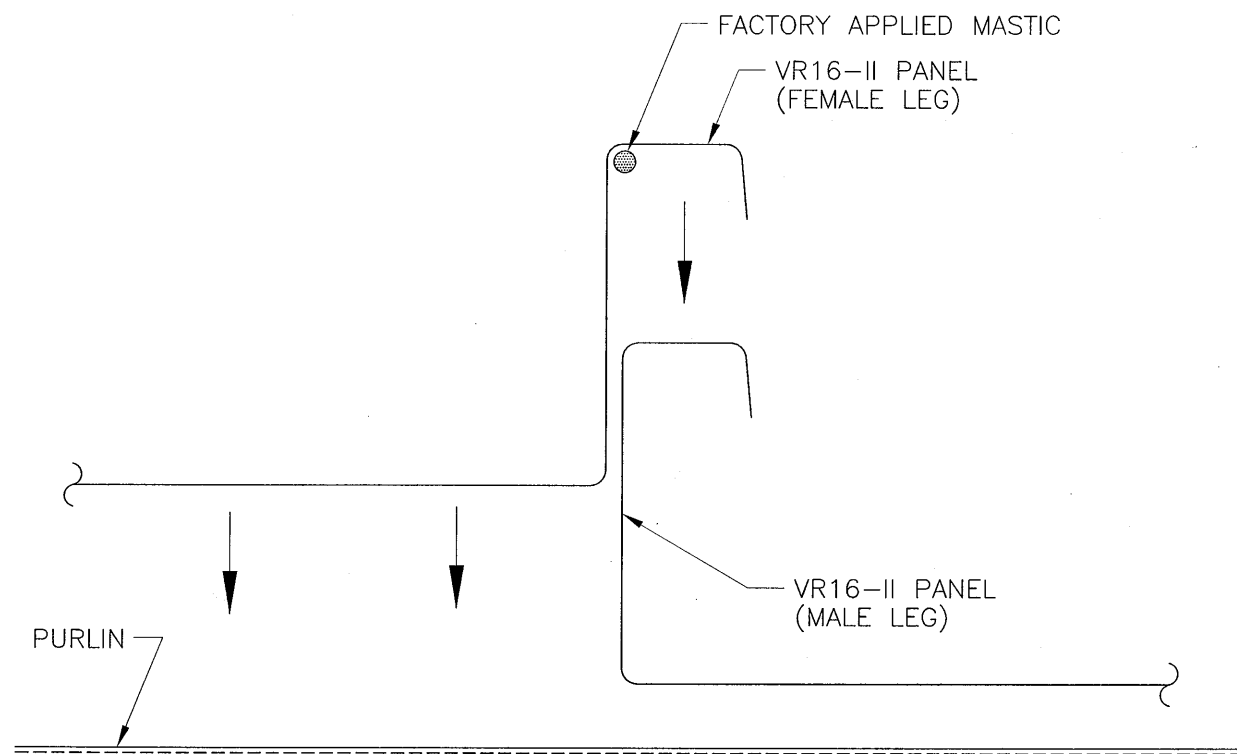
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DRAWN BY: RLV	6-28-12
CHECKED BY: BRW	6-28-12
DESIGN APP'D. BY:	
ISSUED DATE:	

VR16-II "WISE LOCK 360"
ROOF PANEL
PANEL CLIPS

NUCOR
BUILDING SYSTEMS

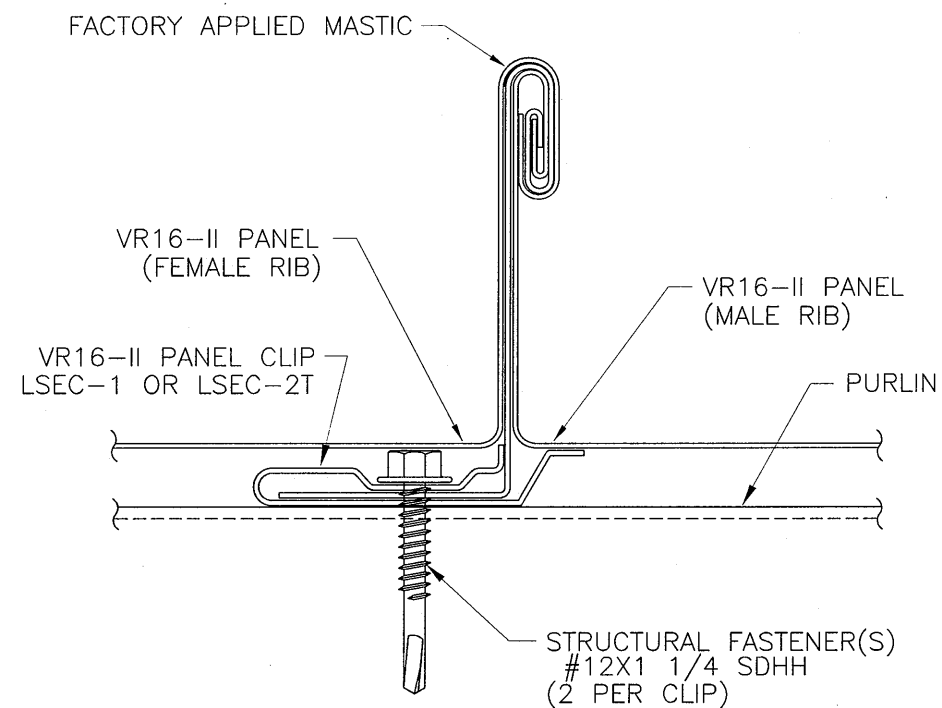
PO BOX 1006, 200 WHETSTONE RD.
SWANSEA, SC 29160 PHONE: (803)
568-2100 FAX: (803) 568-2121

DRAWING NUMBER:	MD-VR16II	PAGE	2 of 9
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DETAIL AT SIDELAP
VR16-II "WISE LOCK 360"

RC01
GA-MD



INSULATION NOT SHOWN
FOR CLARITY.

DETAIL AT PANEL CLIP
VR16-II "WISE LOCK 360"

RC19A
GA-MD

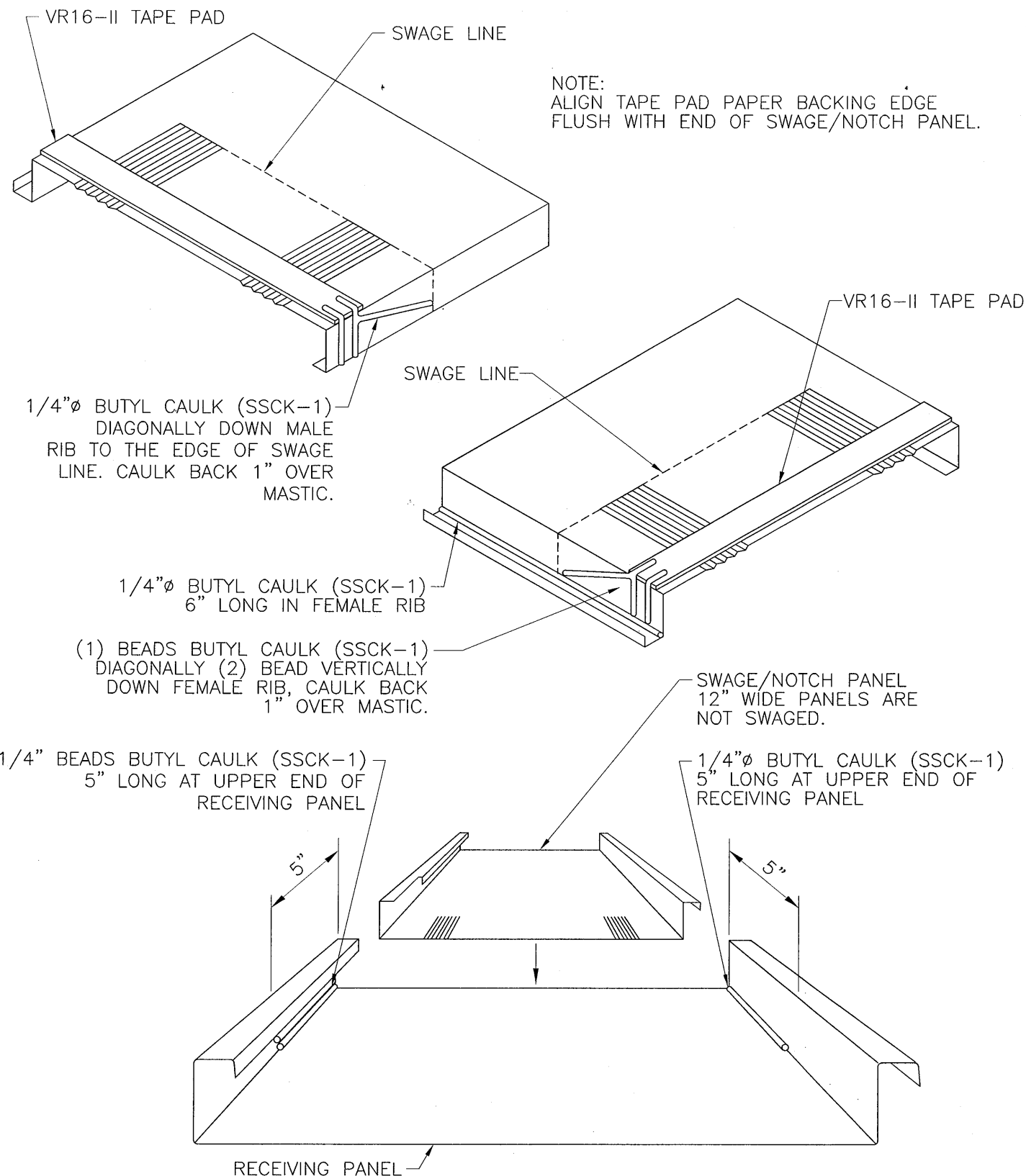
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Expiration Date 10/17/2017
By Jeffrey C. Walsh
Miami Dade Product Control

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NO.	REVISION	MADE	CK'D.	DATE

Jeffrey C. Walsh
11/15/12

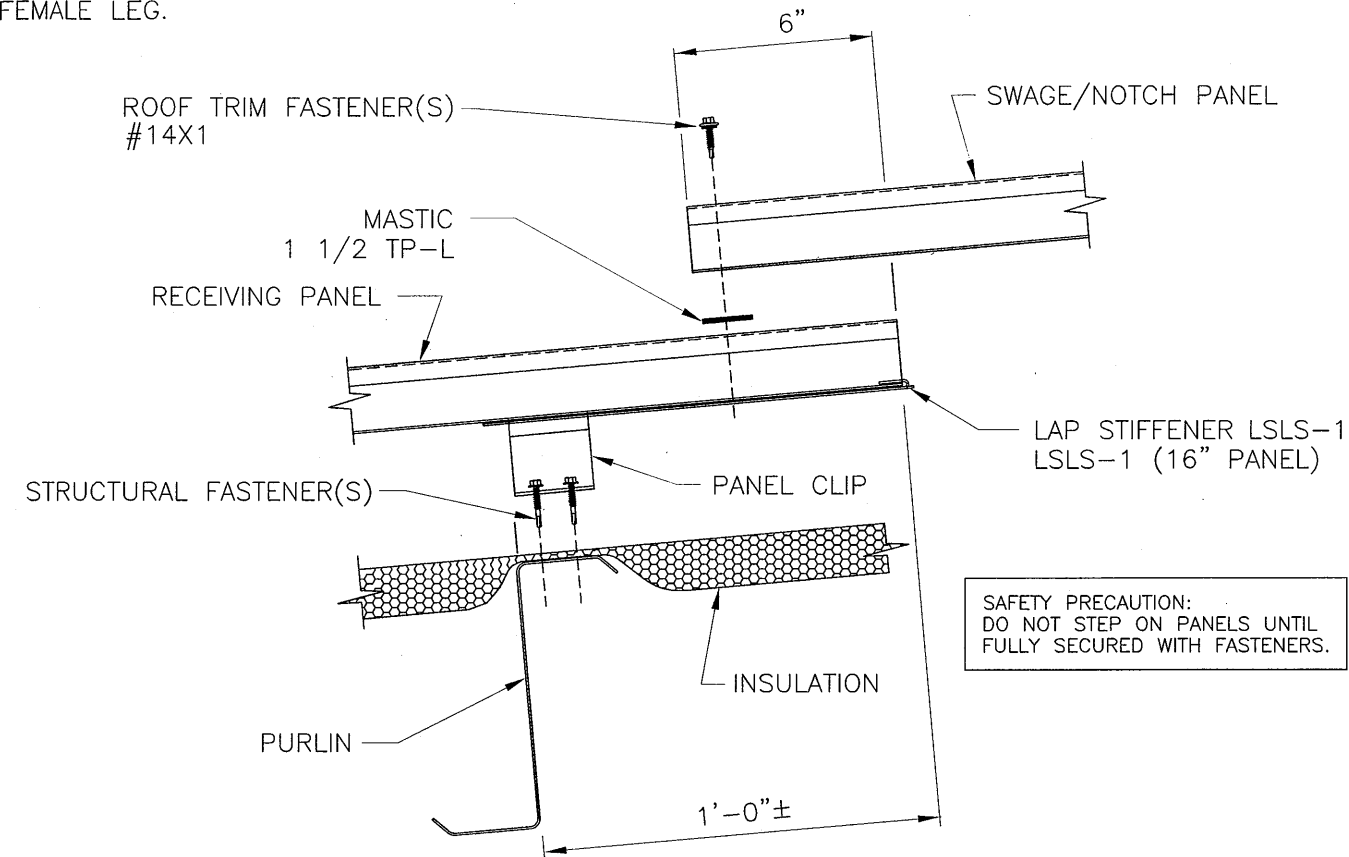
ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE 6-28-12	VR16-II "WISE LOCK 360" ROOF PANEL SECTION AND DETAILS	<div>NUCOR BUILDING SYSTEMS</div> <div>PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121</div>	
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: RLV	6-28-12			
	CHECKED BY: BRW	6-28-12			
	DESIGN APP'D. BY:				
	ISSUED DATE:		DRAWING NUMBER: MD-VR16II		PAGE 3 of 9



ROOF PANEL ENDLAP CAULKING DETAIL
VR16-II "VISE LOCK 360"

RC08
GA-MD

NOTE:
PRIOR TO INSTALLING LAP FASTENERS, PANELS MUST BE HAND SEAMED AT LOWER EDGE OF UPPER PANEL ON FEMALE LEG.



ROOF PANEL ENDLAP
VR16-II "VISE LOCK 360"

RC06
GA-MD

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By *Heidi A. Miller*
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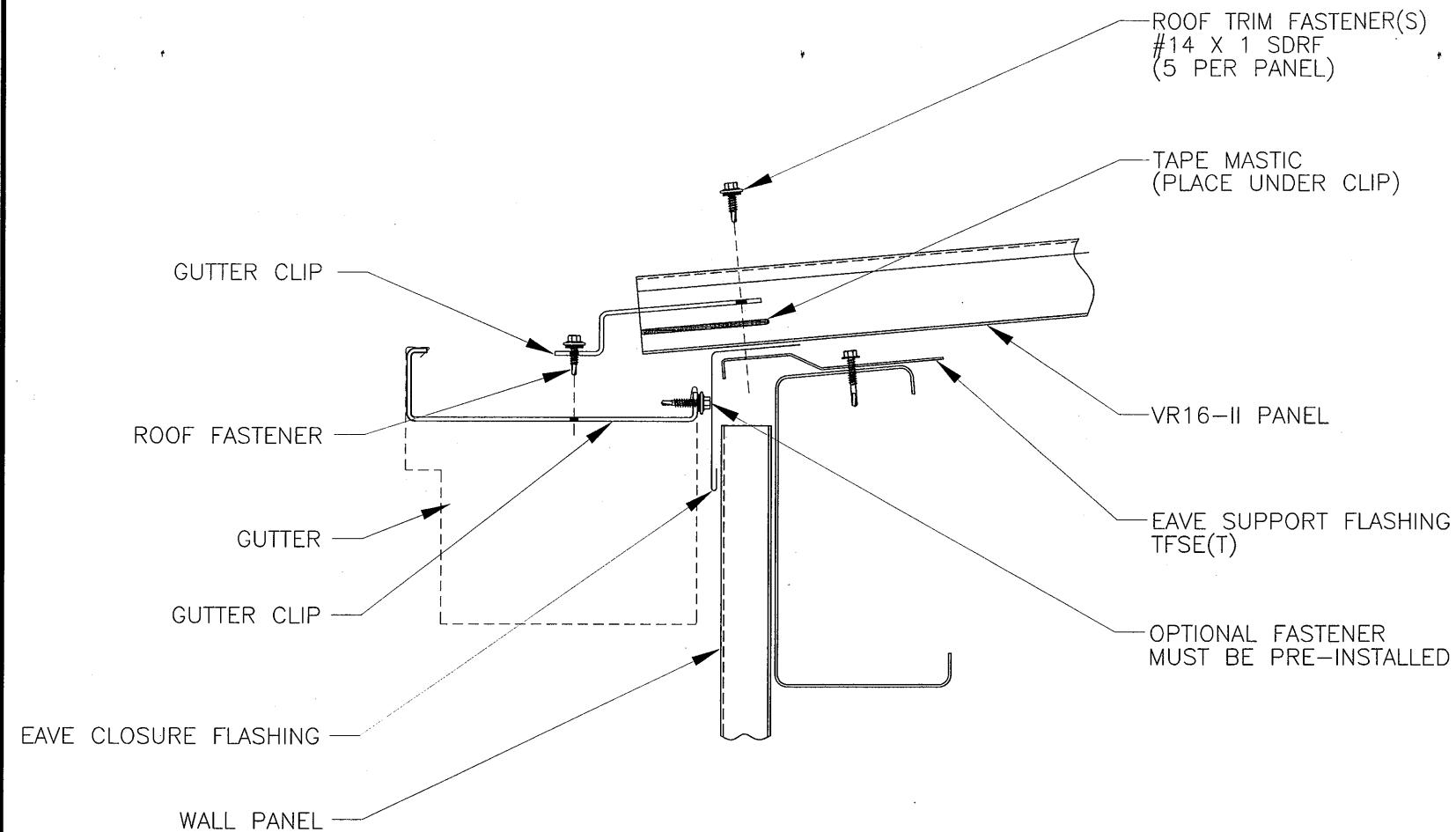
1	REVISED FOR FINAL SUBMITTAL	THG	JCW	11-14-12
NO.	REVISION	MADE	CK'D.	DATE

ENGINEER'S NAME:	JEFFREY C. WALSH
ENGINEER'S STATE REGISTRATION NUMBER:	41467

SCALE: NOT TO SCALE	DATE
DRAWN BY: RLV	6-28-12
CHECKED BY: BRW	6-28-12
DESIGN APP'D. BY:	
ISSUED DATE:	

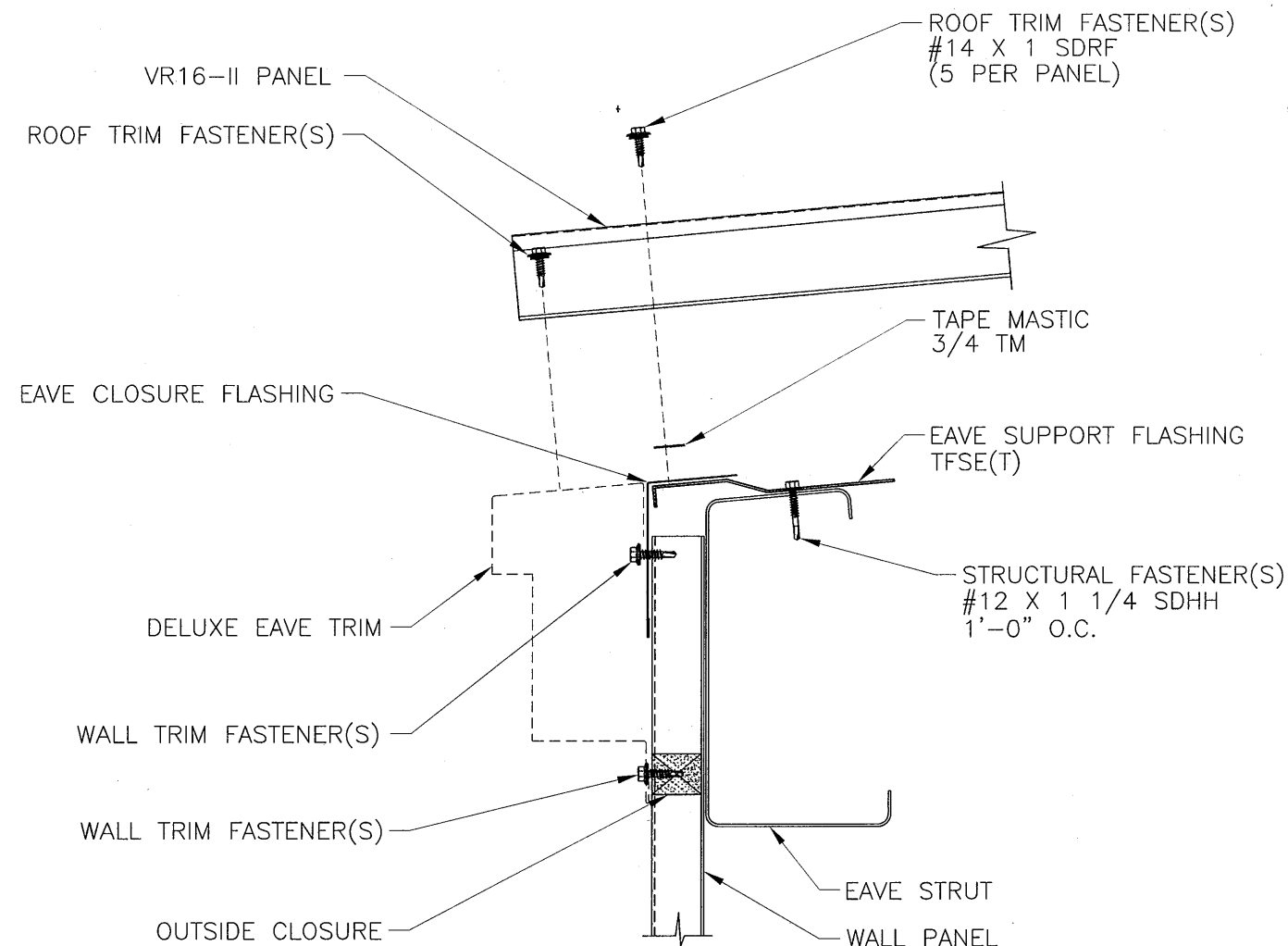
VR16-II "VISE LOCK 360" ROOF PANEL SECTION AT PANEL ENDLAP
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NUCOR BUILDING SYSTEMS	PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121
DRAWING NUMBER: MD-VR16II	PAGE 4 of 9



STANDARD GUTTER DETAIL WITH GUTTER CLIP ATTACHMENT
VR16-II "VISE LOCK 360"

EA01
GA-MD



EAVE DETAIL W/DELUXE EAVE FLASHING
VR16-II "VISE LOCK 360"

EA03
GB-MD

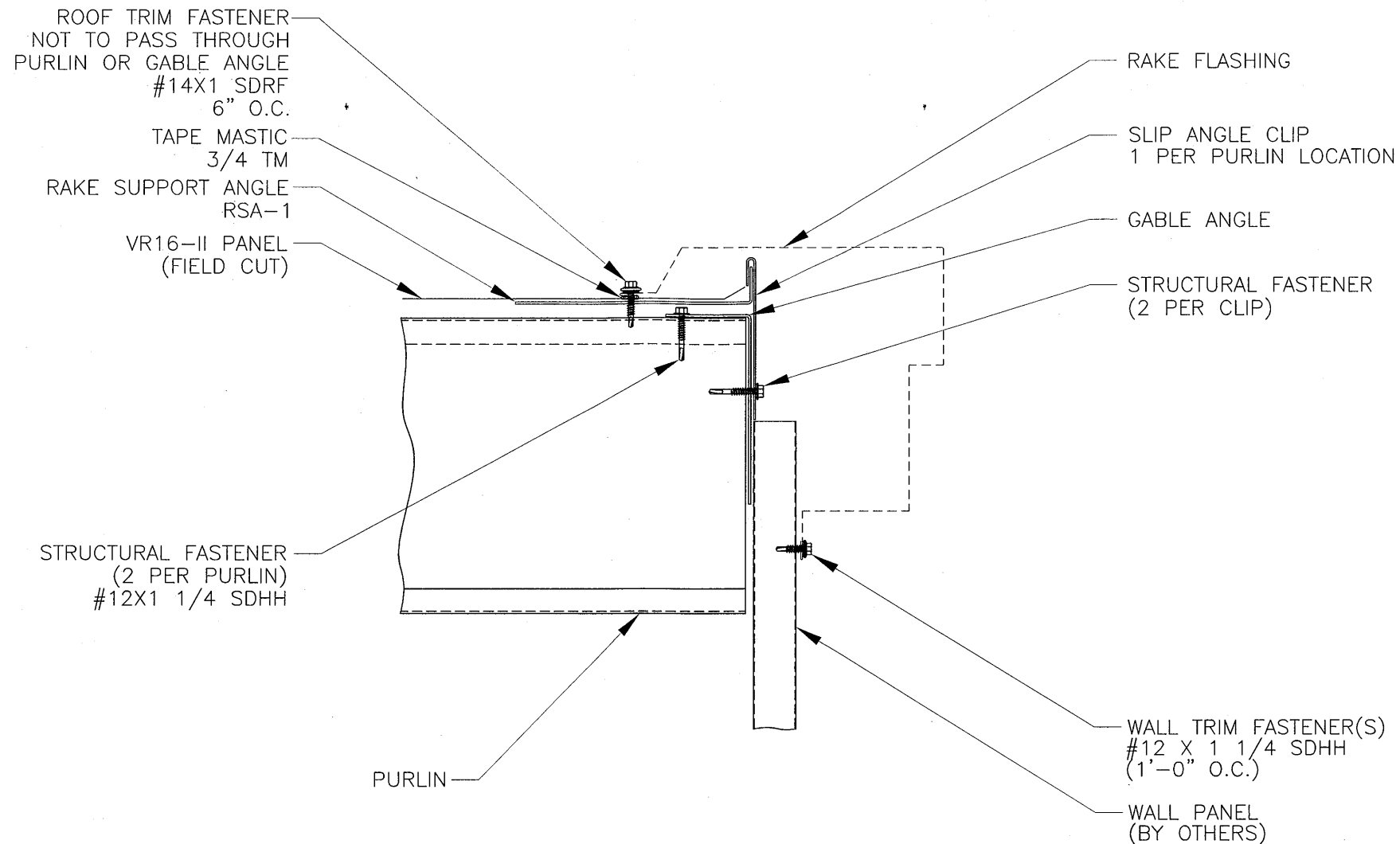
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Expiration Date 10/17/2017
By *[Signature]*
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NO.	REVISION	MADE	CK'D.	DATE

Jeffrey C. Walsh
11/15/12

ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE 6-28-12	VR16-II "VISE LOCK 360" ROOF PANEL SECTION AT EAVE	NUCOR BUILDING SYSTEMS PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: RLV	6-28-12		
	CHECKED BY: BRW	6-28-12		
	DESIGN APP'D. BY:			
	ISSUED DATE:			
			DRAWING NUMBER: MD-VR16II	PAGE 5 of 9



UNIVERSAL RAKE DETAIL
VR16-II "VISE LOCK 360"

RA02
AA-MD

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ENGINEER'S STATE REGISTRATION NUMBER:
41467

SCALE: NOT TO SCALE
DATE
DRAWN BY: RLV 6-28-12
CHECKED BY: BRW 6-28-12
DESIGN APP'D. BY:
ISSUED DATE:

VR16-II "VISE LOCK 360"
ROOF PANEL
SECTION AT RAKE

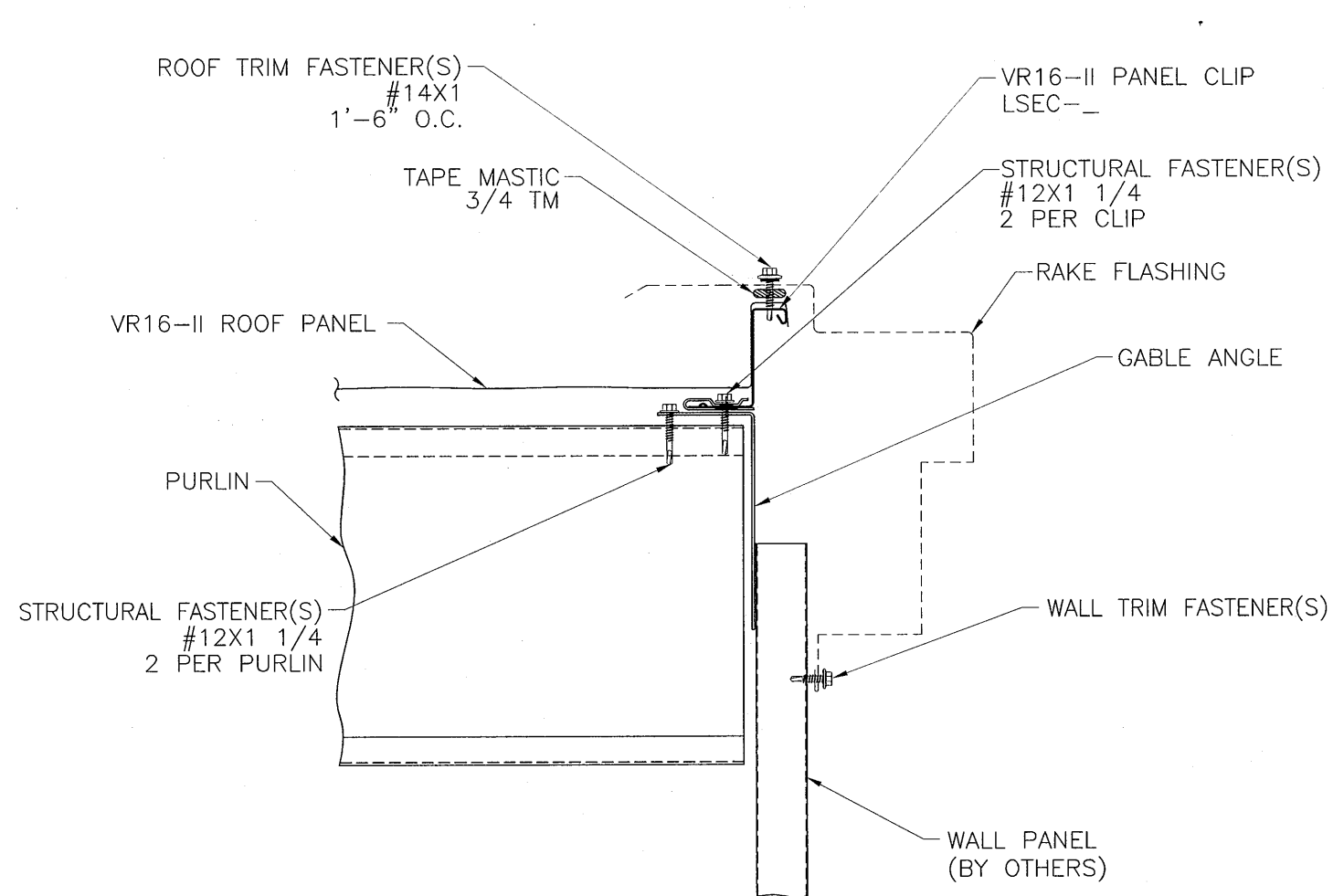
NUCOR
BUILDING SYSTEMS

PO BOX 1006, 200 WHETSTONE RD.
SWANSEA, SC 29160 PHONE: (803)
568-2100 FAX: (803) 568-2121

DRAWING NUMBER: MD-VR16II

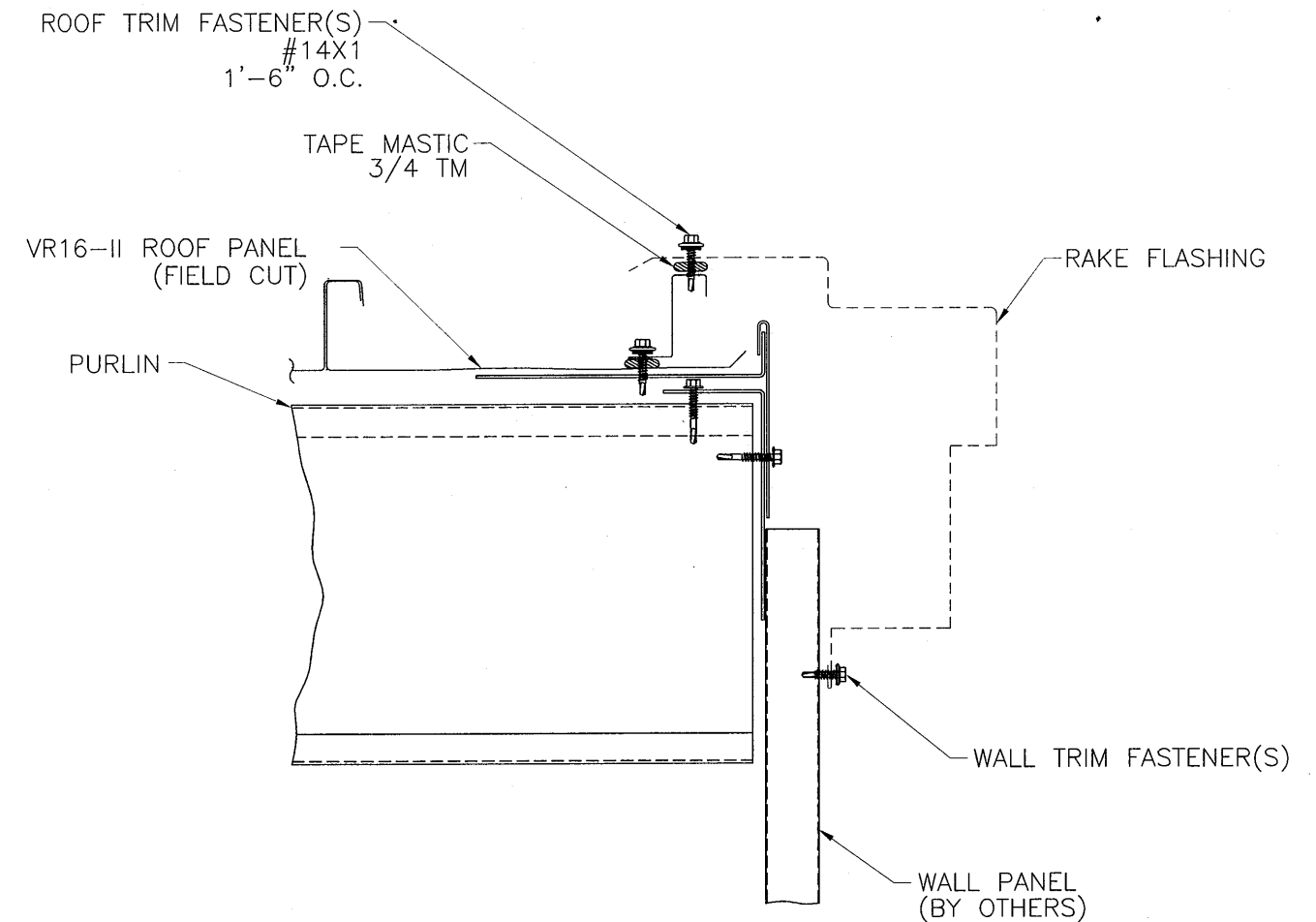
PAGE
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[Handwritten Signature]
11/15/12



CUSTOM RAKE DETAIL AT STARTING ENDWALL
VR16-II "VISE LOCK 360"

RA01
GA-MD



CUSTOM RAKE DETAIL AT ENDING ENDWALL
VR16-II "VISE LOCK 360"

RA01A
GA-MD

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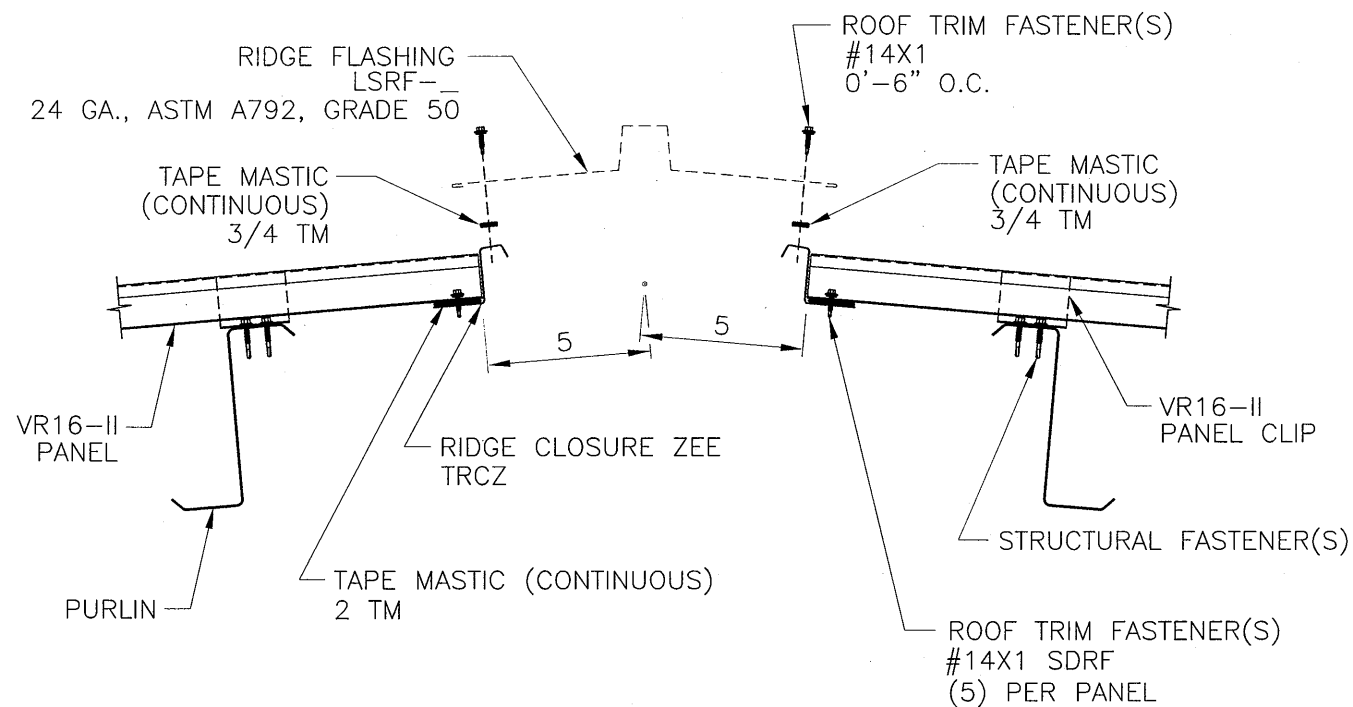
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DRAWN BY: RLV	6-28-12
CHECKED BY: BRW	6-28-12
DESIGN APP'D. BY:	
ISSUED DATE:	

VR16-II "VISE LOCK 360"
ROOF PANEL
SECTION AT RAKE

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BUILDING SYSTEMS

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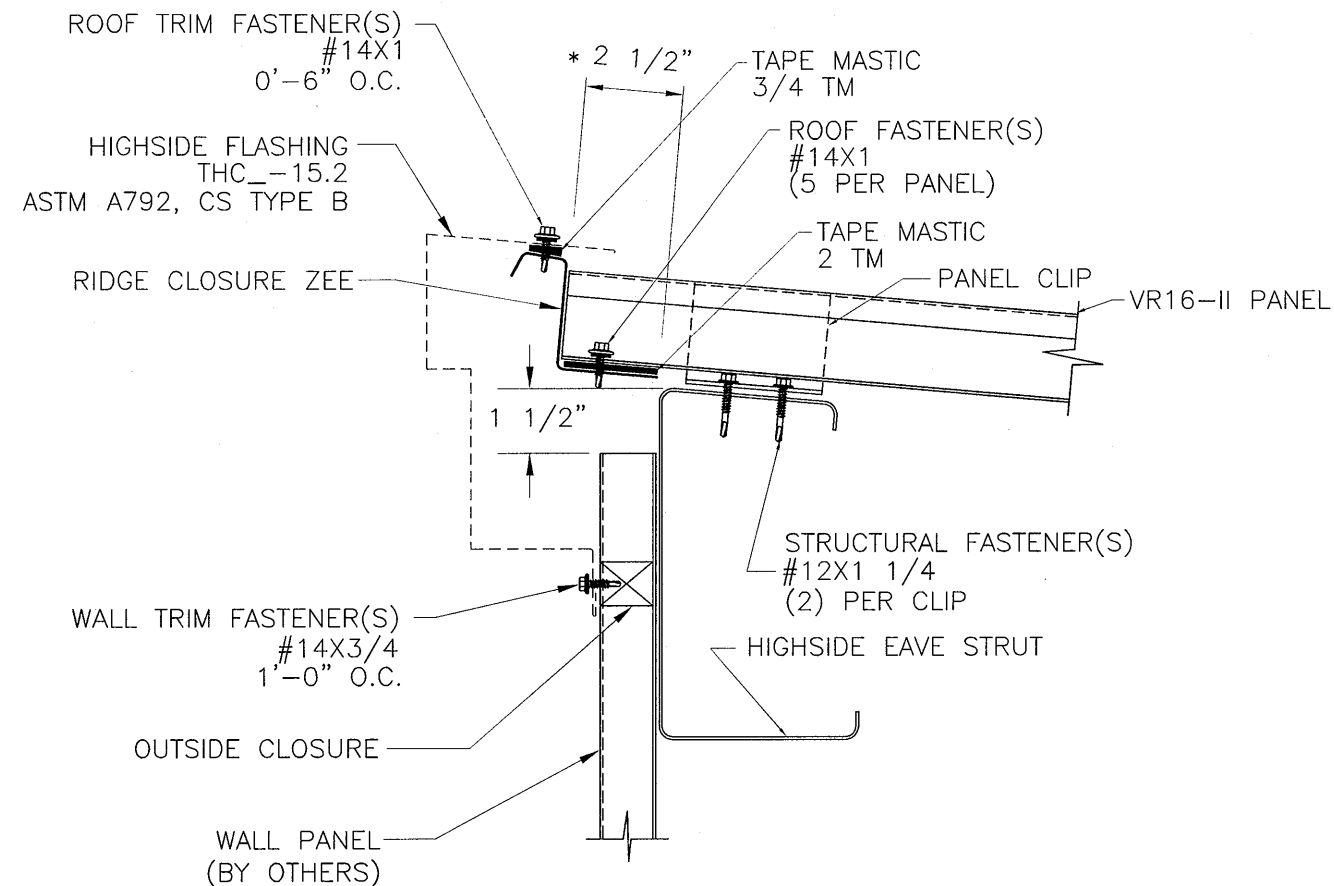
DRAWING NUMBER: MD-VR16II
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RIDGE DETAIL

VR16-II "WISE LOCK 360"

RC32
GA-MD



DELUXE HIGHSIDE EAVE

VR16-II "WISE LOCK 360"

EA05
GB-MD

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JEFFREY C. WALSH
ENGINEER'S STATE REGISTRATION NUMBER:
41467

SCALE: NOT TO SCALE
DATE
DRAWN BY: RLV 6-28-12
CHECKED BY: BRW 6-28-12
DESIGN APP'D. BY:
ISSUED DATE:

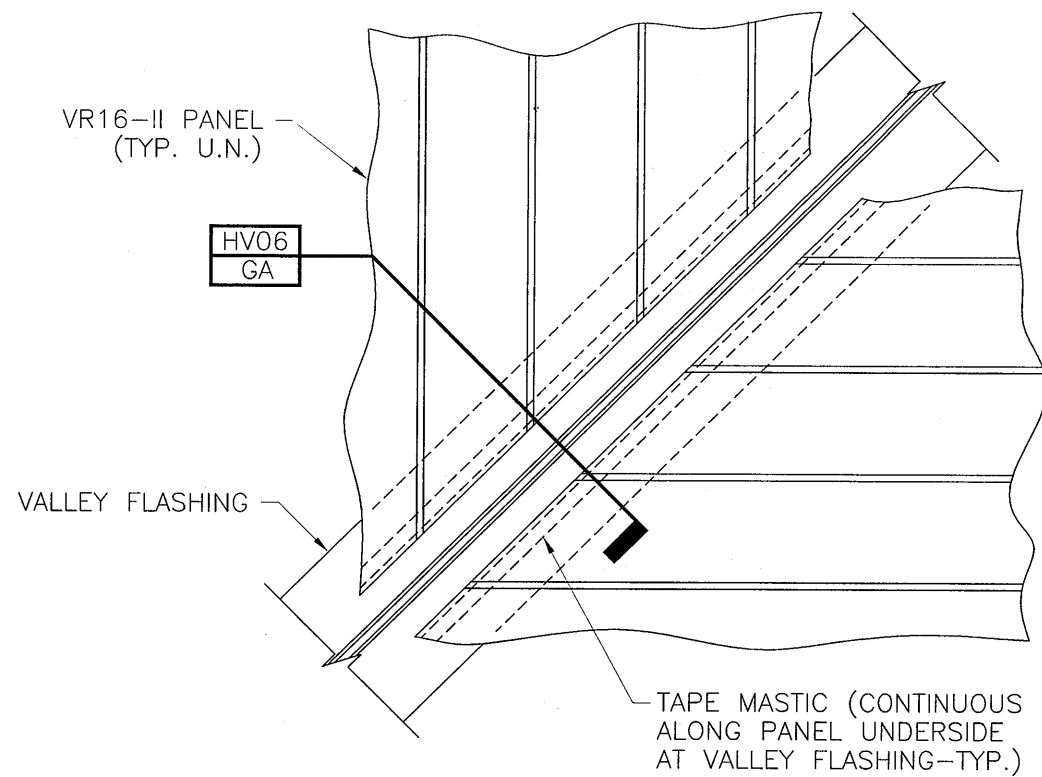
VR16-II "WISE LOCK 360"
ROOF PANEL
SECTION AT RIDGE
AND HIGH SIDE EAVE

NUCOR
BUILDING SYSTEMS

PO BOX 1006, 200 WHETSTONE RD.
SWANSEA, SC 29160 PHONE: (803)
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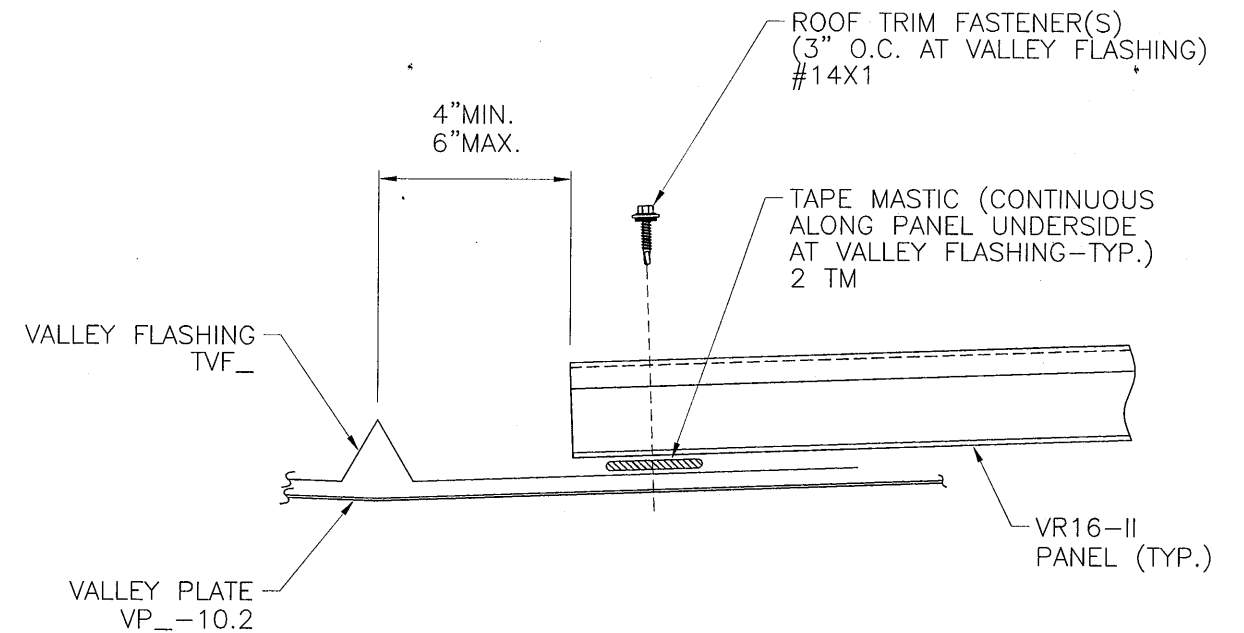
DRAWING NUMBER: MD-VR16II

PAGE
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PANEL DETAIL AT VALLEY
VR16-II "VISE LOCK 360"

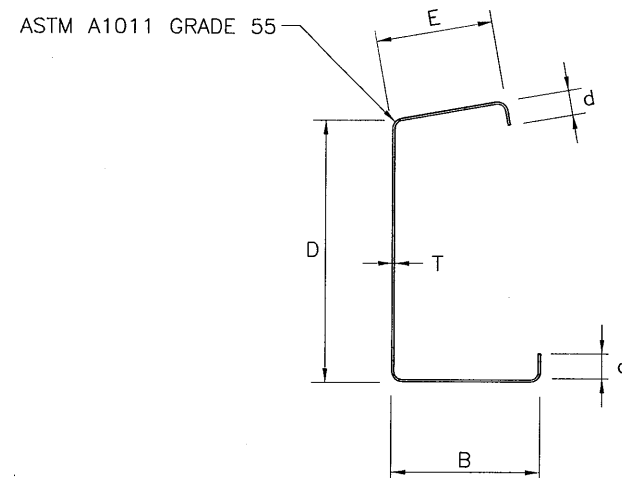
HV07
GA-MD



NOTE:
OPPOSITE SIDE OF VALLEY
NOT SHOWN FOR CLARITY.

VALLEY FLASHING DETAIL
VR16-II "VISE LOCK 360"

HV06
GA-MD



STANDARD EAVE STRUT

Section Depth and Gauge	Depth "D" (in.)	Flange "B" (in.)	Flange "E" (in.)	Lips "d" (in.)	Thick "T" (in.)
40S6	4.000	3.500	2.250	0.719	0.060
40S4	4.000	3.500	2.250	0.781	0.075
60S6	6.000	4.500	2.500	0.781	0.060
60S4	6.000	4.500	2.500	0.844	0.075
60S2	6.000	4.500	2.500	0.938	0.099
80S5	8.000	4.500	3.375	0.719	0.067
80S4	8.000	4.500	3.375	0.750	0.075
80S2	8.000	4.500	3.375	0.844	0.099
95S3	9.500	4.500	4.500	0.969	0.089
95S2	9.500	4.500	4.500	1.031	0.099
95S1	9.500	4.500	4.500	1.125	0.120

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VR16-II "VISE LOCK 360"
ROOF PANEL
SECTION AT VALLEY

NUCOR
BUILDING SYSTEMS

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DRAWING NUMBER: MD-VR16II
PAGE 9 of 9